International Application No PCT/EP 03/50348

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K38/25 A61K38/27

C. DOCUMENTS CONSIDERED TO BE RELEVANT

A61K38/30

A61K48/00

A61P25/16

Relevant to claim No.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Category °

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

Citation of document, with indication, where appropriate, of the relevant passages

EPO-Internal, BIOSIS, WPI Data, PAJ, MEDLINE

X	WO 02 17951 A (UNIV COLORADO RES DOUGLAS N (US)) 7 March 2002 (20 claims 1-15 page 3, line 14 - line 20 page 3, line 21 -page 4, line 10	1-38			
X	WO 97 21449 A (UNIV COLORADO RES 19 June 1997 (1997-06-19) claims 1-18 Example 3, in particular p 16 li page 4, line 17 - line 27	1–38			
		-/			
X Furt	her documents are listed in the continuation of box C.	Patent family members are listed	in annex.		
"A" docum consider "E" earlier filling of "L" docum which citatio "O" docum other	ategories of cited documents: ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed	It later document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the invention Courment of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone of the courment of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.			
Date of the	actual completion of the international search	Date of mailing of the international search report			
2	7 October 2003	04/11/2003			
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo ni, Fax: (+31–70) 340–3016	Authorized officer Fayos, C			

International Application No
PCT/EP 03/50348

0.10	NAN DONINENTS CONDIDERED TO BE DELEVIANT	PCI/EP 03/50348
C.(Continua Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	AABERG N D ET AL: "GROWTH HORMONE INCREASES CONNEXIN-43 EXPRESSION IN THE CEREBRAL CORTEX AND HYPOTHALAMUS" ENDOCRINOLOGY, BALTIMORE, MD, US, vol. 141, no. 10, October 2000 (2000-10), pages 3879-3886, XP001029195 ISSN: 0013-7227	1-38
Y	abstract page 3879, column 1 -column 2, paragraph 1 Discussion US 5 869 452 A (NATERA SIRIA HELEN-ANNA ET AL) 9 February 1999 (1999-02-09) column 2, line 14 ~ line 56	1-26, 32-38
Y	claims 1-5 US 5 736 515 A (BENGTSSON BENGT-ANGSTROM KE ET AL) 7 April 1998 (1998-04-07) column 2, line 6-11 Discussion: column 9, line 35 -column 12, line 27	1-38
Υ	WO 02 28437 A (ARES TRADING SA ;PIQUET GILLES (IT); BARBERO LUCA (IT); GATTI MONI) 11 April 2002 (2002-04-11) the whole document	25,26
Y	WO 00 42175 A (COX GEORGE N ;BOLDER BIOTECHNOLOGY INC (US); DOHERTY DANIEL H (US)) 20 July 2000 (2000-07-20) the whole document	25,26
Α	GILMAN S ET AL: "CONSENSUS STATEMENT ON THE DIAGNOSIS OF MULTIPLE SYSTEM ATROPHY" JOURNAL OF THE AUTONOMIC NERVOUS SYSTEMS, ELSEVIER, AMSTERDAM, NL, vol. 74, no. 2/3, 1998, pages 189-192, XP001029429 ISSN: 0165-1838 the whole document	1-38

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-4, 24-25, 32-38 (partially)

Present claims 1-4, 24-25, 32-38 relate to an extremely large number of possible compounds which are defined by reference to desirable characteristics or properties, namely "a substance which binds to and initiates signaling of the human growth hormone receptor or a substance which stimulates release or potentiates the activity of endogenous hGH", a substance as defined in claim $4 \ b)-e$) and claim $24 \ b)-e$).

The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible.

Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compounds by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible.

Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to compounds being hGH, hGHRH, IGF as well as the compounds of claims 5-17 and 28 and the fragments and variants thereof explicitly mentioned in the description on p 15 line 5-p 16 line 4.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

International application No. PCT/EP 03/50348

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: 1-4, 24-25, 32-38 (partially) because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This international Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

information on patent family members

International Application No PCT/EP 03/50348

						,
Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 0217951	A	07-03-2002	AU	8844301	Α	13-03-2002
		-	CA	2419561		07-03-2002
			ΕP	1313499	A1	28-05-2003
			WO	0217951		07-03-2002
WO 9721449	A	19-06-1997	AT	236652	 T	15-04-2003
			CA	2240327		19-06-1997
			DE	69627379		15-05-2003
			EP	0874641		04-11-1998
			JР	2000514038		24-10-2000
			WO	9721449		19-06-1997
US 5869452	A	09-02-1999	AU	693478	B2	02-07-1998
			CA	2135813	A1	16-05-1996
			JP	8165250	A	25-06-1996
			NZ	264912	Α	26-11-1996
			AU	7772794	Α	16-05-1996
			US	2002142965	A1	03-10-2002
			US	6335319	B1	01-01-2002
US 5736515	A	07-04-1998	AU	683306	B2	06-11-1997
			AU	7793394	Α	10-04-1995
			CA	2168570	A1	30-03-1995
			EP	0720483	A1	10-07-1996
			JP	9502973	T	25-03-1997
			WO	9508345	A1	30-03-1995
WO 0228437	Α	11-04-2002	AU	9558901		15-04-2002
			CA	2422707		11-04-2002
			WO	0228437		11-04-2002
			EP	1324777	A1	09-07-2003
WO 0042175	A	20-07-2000	AU	2413300		01-08-2000
			BR	0008759		06-08-2002
			CA	2359345		20-07-2000
			CN	1355842		26-06-2002
			EP	1144613		17-10-2001
			JР	2002534119		15-10-2002
			WO	0042175	Δ1	20-07-2000